

INDEX

Entries in italics denote a figure. The use of 't' denotes a table.

- Abell, Abraham, 26
Act of Union, 134
Agricultural Improvement Society of Ireland, 78, 137
Agricultural Instructor, 91
agriculture, 45–6;
 and periodicals, 139;
 and university education, 51;
 and voluntary societies, 15–23, 81–7;
 see also Chapter 3.
Albert Agricultural College and Albert Model Farm, *see* Glasnevin Model Farm
Alcock, Benjamin, 61–3
All Hallows College, 149
Andrews, Thomas, 56, 71, 80
Animal Chemistry, 90
Armagh, 56, 169
Atlantis, 144, 151–3, 157
- Bandon, and exhibitions, 121
Beamish, William, 14, 16
Bedford, Henry, 149, 155–6
Belfast Academical Institution,
 and voluntary societies, 15, 18, 21, 38, 40;
 and university education, 44, 50;
 and agricultural improvement, 80–1, 117
Belfast Museum, 80, 102, 106–7, 115, 117
Belfast Natural History Society, 4, 38, 40–1, 80, 117, 164;
 museum of, 106, 115
Belfast Newsletter, 62
Belfast, 4, 6, 7, 8, 12, 13, 163, 165, 168;
 and agricultural improvement, 80;
 British Association for the Advancement of Science, 141, 157;
 exhibitions, 129;
 industries of, 14, 80, 86;
 museums in, 107–8, 165;
 voluntary societies in, 38, 40–1, 81, 158;
 see also Chapter 3
Benson, John, 123
Berwick, Edward, 58
Biggs, Henry, 25
Board of National Education, 91
Boole, George, 33, 63
Botanic Gardens, Glasnevin, 116
British Association for the Advancement of Science, 142, 164–5;
 and agricultural improvement, 77–8;
 meetings in Belfast, 107, 148, 156;
 meeting in Cork, 165–6;
 meetings in Dublin, 141, 155;
 and voluntary societies, 12, 32, 37, 40
British Museum, 110, 115
Browne, G., 50
Bullen, Denis, 51, 58
- Callan, Nicholas, 150
Cambridge, University of, 52, 60, 67;
 museum, 103
Campbell, James, 95
Carpenter, George, 109
Carpenter, William Benjamin, 117
Carroll, Isaac, 34, 36, 117
Catholicism,
 attitudes towards science, 7, 65–70, 131–3;
 and evolution, 44, 148–9, 156, 168;

- and periodicals, 135, 147, 151–7;
and university education, 54–70, 96, 136
- Catholic Emancipation, 3, 13, 38, 45, 134
- Catholic University Gazette*, 151
- Catholic University, 7;
committee of, 65–6;
faculty of science, 67, 152–3;
and periodicals 132, 142–4, 153, 151,
155, 167;
and university education, 43–4, 54, 57,
62–70 *passim*
- Caulfield, Richard, 35
- Celt*, 137; 140–1
- Celtic Union, 137, 140
- Chemico-Agricultural Society of Ulster, 38,
79, 81–2, 85–7, 90, 95, 98–9
- chemistry, 6, 158;
and museums, 105;
and periodicals, 158;
and university education, 49, 54–5, 64,
66;
and voluntary societies, 33, 35;
see also Chapter 3.
- Clear, William, 26
- Clerke, Mary Agnes, 144
- Clonmel, 16, 49, 121
- Cody, Brian, 23, 35
- Cole, Henry, 110
- Colleges (Ireland) Act of 1845, 43, 47, 51,
54
- Commissioners of National Education, 18,
50–2, 62, 74
- Comte, August, 154
- Connacht, and exhibitions, 128–9; and
Great Famine, 120; and scientific socie-
ties, 38–9
- conversaciones, 23–4, 29–34, 36
- Corbett, Daniel, 61–2, 120
- Cork Athenaeum, 22, 33
- Cork Cuvierian Society, 14, 26*t*, 28, 23–9,
164;
and university education 32–41;
and agricultural improvement, 91;
and museums 109, 116–17;
and exhibitions, 121
- Cork Exhibition, of 1852, 15, 22, 32, 121,
119–23; of 1883, 119, 130
- Cork Institution,
see Royal Cork Institution
- Cork Library, 30
- Cork Naturalists' Field Club, 14, 36
- Cork Recognised School of Medicine, 31
- Cork Scientific and Literary Society, 11, 14,
23–33, 25*t*, 36–8, 163–4;
and agricultural improvement 91;
and exhibitions, 8, 121;
and university education, 49
- Cork, 6, 7; and agricultural improvement,
16–8, 22, 88, 91–2;
and exhibitions, 8, 101–2, 129; 168;
and museums, 107, 109;
industry in 14;
Old Custom House, 21;
railroads, 14;
and university education, 7, 8, 49–52;
and voluntary societies, 8, 13–37, 40–1,
129;
see also Chapter 1
- Corrigan, Dominic, 62, 68, 150–1, 169
- Coventry, Andrew, 76
- Crawford, William Sharman, 16, 82
- Croly, William, 54–6, 65
- Cullen, Paul, 64–9, 134
- Damon, Robert, 116
- Dargan, William, 22, 123
- Darragh, William, 115–16
- Darwin, Charles, 115, 141, 145, 152–3, 157
- Darwinism, 133, 148, 154–8, 168–9
- Davis, Thomas, 7, 50
- Davy, Edmund, 15, 18, 86
- Davy, Humphry, 86
- Deane, Thomas, 22, 105
- Dennehy, Cannon, 155
- Department of Science and Art, 2, 3, 57,
63–4, 110
- DeVericour, Raymond, 58
- Dickie, George, 107, 117; and museums,
113, 115–16
- Dissenters, and scientific societies, 24–6, 39,
40–1, 163, 166
- Doran, Patrick, 116
- Dowden, Richard, and scientific societies,
15, 25–6, 29;
and university education, 31–4;
and agricultural improvement, 91–2;

- and exhibitions, 123
 Down, County of, 12, 79, 116
 Drummond, James, 40, 106, 108
 Drummond, Thomas, 40
 Du Chaillu, Paul, 144
 Dublin Exhibition of 1853, 101, 119, 124, 124, 126–30, 127
 Dublin Natural History Museum, 109, 116
Dublin Penny Journal, 169
Dublin Quarterly Journal of Medical Science, 137
Dublin Review, 47, 134, 147, 150–1, 153, 156
Dublin University Magazine, 47, 52–3, 87, 142, 147, 150
 Dublin, 4–7, 12–13, 86, 149, 163, 165, 168;
 agricultural education in, 78, 89, 91;
 and British Association for the Advancement of Science, 141;
 and exhibitions, 101–2, 121;
 and proposed Queen's College, 63;
 and museums, 109;
 and periodicals, 143
 Duffy, Charles Gavan, 1, 140
 Duffy, James, 130–8 *passim*, 142, 145, 151;
 see also Hibernian Magazine, Irish Catholic Magazine, Hibernian Sixpenny Magazine, Fireside Magazine, Illustrated Dublin Journal, Catholic University Gazette
- East India Company, 116, 118
 Edinburgh, 12, 116;
 University of, 76, 93
 electric telegraph, 31, 145–6
 Emigration, of Queen's College students, 96
 engineering, and agricultural improvement, 75, 88, 96–8;
 and museums, 103;
 and university education, 54, 64, 66
 England, 12, 13, 144;
 and exhibitions, 122–3, 128;
 scientific societies in, 30, 41, 162
 ethnology, 137–8, 141, 145, 153
 evolution, 44, 70;
 and periodicals, 133, 141, 148–9, 152, 153, 156–8, 168
Exhibition Expositor, 124–5, 130, 139, 152
- Farming Society of Ireland, 78
 Finlay, Thomas, 148–9
Fireside Magazine, 140
 Flanagan, Terence, 66
 Flax Improvement Society, 79, 81–7, 95, 99, 116
 flax, 84
Flora and Fauna of the County Cork, 32, 34–5, 37
 Forbes, Edward, 110
 France, agricultural education in, 75;
 schools in, 50
 Free Museums and Libraries Act of 1845, 102, 130
Freeman's Journal, 135, 142, 169
- Galway, 4, 6, 168;
 and agricultural improvement, 92;
 and exhibitions, 121, 129;
 and museums, 102, 109–118;
 and university education, 49, 56–9;
 and voluntary societies, 38–9, 49
 Gaynor, Revd, 157
 Geological Society of Ireland, 137
 Geological Society of London, 35, 36
 Geological Survey of Ireland, 4, 45–6, 61
 geology, and agricultural improvement, 74–7, 96;
 and museums, 109, 113–14, 118;
 and periodicals, 153–5;
 and university education; 54, 59–60, 68,
 and voluntary societies, 33, 35
 Giessen, University of, 78–9, 86, 167
 Glasnevin Model Farm, 74, 76, 88, 93–6
 Great Exhibition of 1851, 13, 103, 119–23
 Great Famine, 2, 163–4;
 and agricultural improvement, 72–3, 79–80, 82, 87, 99;
 and exhibitions, 120;
 and periodicals, 135;
 and the Queen's Colleges, 45;
 and scientific societies, 13–4, 29, 31
 Greene, Joseph Reay, 33, 110
 Guinness, Benjamin Lee, 126
- Haines, Charles Y., 26, 31, 34
 Hamilton, John, 62
 Hancock Museum, 117

- Hardiman, James, 40
 Harkness, Robert, 27, 33, 35;
 and Queen's College Cork museum, 105,
 110–11, 114–15
Harp, 14
 Harvey, Joshua, 26, 33–4, 109
 Harvey, William Henry, 117
 Haverly, Martin, 141
 Hennessy, Henry, 26, 33, 57–8, 66, 143,
 152–3, 167
 Hennessy, Sir John Pope, 167
 Henry, Pooley Shuldham, 53, 56, 58, 80,
 105–6
Hibernian Magazine, 137, 141–6, 149, 152,
 154, 157
Hibernian Sixpenny Magazine, 138
 Highland and Agricultural Society, 76
 Hincks, Thomas Dix, 15, 33, 39, 40, 117
 Hincks, William, 27, 33, 117
 Hodges, John F., 79–99 *passim*, 163
 Humphreys, John, 25–6, 34
 Huxley, Thomas H., 112, 157
Illustrated Dublin Journal, 138
Industrial Resources of Ireland, 46–7, 78, 82,
 119, 163
 industrialization, 3–4, 9, 45–6, 162–4;
 and agricultural improvement, 73, 77,
 80–1;
 and Cork, 14;
 and exhibitions, 101–2, 119–29; 101,
 162–4;
 and periodicals, 139–41, 145, 155;
 and university education, 47, 51, 63, 71;
 and voluntary societies, 13, 38–9, 40
 Inglis, Sir Robert, 52
Irish Builder, 128–9
Irish Catholic Magazine, 138, 139
Irish Ecclesiastical Record, 131, 151–5, 169
Irish Farmer's and Gardener's Magazine, 88,
 91, 139
Irish Farmer's Gazette, 139
 Irish Field Club Union, 166
 Irish Free State, 9, 161
Irish Industrial Magazine, 140
Irish Monthly Magazine, 146–57 *passim*
Irish National Magazine, 137–40
Irish Naturalist, 10, 168
 Jennings, Francis, 25–6, 91
 Jennings, Thomas, 25–6
 Johnston, James, 75, 98
 Kane, Robert, 27, 162–9 *passim*;
 and agricultural improvement, 71–2, 78,
 82, 86, 90, 93;
 and exhibitions, 101–2, 119, 125–6,
 130–2;
 and museums, 101–6, 114–15;
 and periodicals, 139, 143–4, 150–1;
 and Queen's College Cork, 64–5;
 and Queen's College Commission, 97–8;
 and university education, 46–8, 51–2,
 57, 61–3, 68–9
 Kelleher, William, 25
 Kellett, Sir Richard, 16
 Kilkenny, 38–9, 169
 King, Revd A., 25–6
 King, William, and Queen's College Galway
 museum, 108–10, 114, 117
 Kirwan, John, 56–8
 Kirwan, Richard, 131
 laboratory science, 78, 81–2, 85–6, 89, 90,
 95;
 and museums, 103, 105–6
 Lane, Christopher, 63
 Lane, Denny, 123
 Larcom, Thomas, 46, 64, 109
 Lardner, Dionysus, 144
 Liebig, Justus von, 77–9, 82, 85, 89–99
passim, 167
 Limerick Institution, 15–16, 37, 121
 Limerick Philosophical Society, 39
 Limerick Scientific and Literary Society, 13
 Limerick, 168–9;
 and exhibitions, 121;
 and voluntary societies, 13, 15–16, 37–9
 Lithgow, R. A., 144
 Liverpool, museum, 115
 Livingstone, David, 145
*London and Dublin Orthodox Journal of Use-
 ful Knowledge*, 151
 London, 12;
 and exhibitions, 126;
 and natural history dealers, 116;
 University of, 49, 52, 103–4, 117, 150

- Longfield, John, 16
 Lyell, Charles, 153
- MacAdam, James, 59, 116
 McCoy, Frederick, 58, 115
 McCoy, Simon, 58
 MacHale, John, 50, 54–6, 65
 MacKnight, Thomas, 81
 Madden, Daniel Owen, 131
 Maguire, John Francis, and scientific societies, 14, 22;
 and exhibitions, 120–2
 Manchester, 81
 Martineau, Harriet, 81, 107–8
 materialism, 70, 133, 156–7
 Maynooth, St Patrick's College, 53, 55, 142, 147, 151
 medicine, and museums, 104–5, 117–18;
 and periodicals, 142, 144;
 and university education, 60–2, 66, 68;
 and voluntary societies, 24–6, 33–4
 Meehan, Charles Patrick, 141
 Melville, Alexander, 109, 116
 Mivart, St George Jackson, 156
 model farm schools, 21–2, 74, 88, 91–2, 95
 Molloy, Gerald, 154
 Molyneux, William, 131
 Monsell, William, 39, 68
Monthly Journal of Progress, 139, 152, 157
 Moore, David, 116
 More, Alexander Goodman, 36, 116
 Munster Agricultural Committee, 22
 Munster College Committee, 51
Munster Farmer's Magazine, 17, 16
 Munster Model Farm, 21, 91–2
 Munster, and Dissenters, 163;
 and exhibitions, 121;
 and Great Famine, 120
 Murphy, Dominick, 25
 Murphy, Edmund, 33, 58, 88, 91
 Murphy's brewery, 14
 Murray, Daniel, 49, 50, 54–6, 59, 63, 65
 Museum of Economic Geology, 110, 118
 Museum of Irish Industry, 163, 167;
 and agricultural improvement 79, 86, 90;
 and other Irish museums, 103–4, 141, 152;
 and university education, 46, 57, 63–4, 68;
 and voluntary societies, 14, 38
- Nation*, 135, 169
 National Museum of Ireland, 103
 national schools, 22;
 and agricultural improvement, 73–4, 89, 92–3, 95–6;
 and university education, 48–9, 51–4, 74
 nationalism 1, 2, 8, 9;
 and agricultural improvement, 123, 127–8;
 and Cork, 14;
 and exhibitions, 120–30 *passim*;
 and periodicals, 131–40, 145, 157, 159, 161, 167–8;
 and university education, 48–9
 natural history, 6, 12, 50, 53, 166, 168;
 and agricultural improvement, 74–7;
 and museums, 104–5, 109–18;
 and periodicals, 141–4, 153, 168;
 and university education, 59, 61;
 and voluntary societies, 14, 29, 33–7
Natural History Review, 35–6
 natural theology, 144, 146, 149, 153–5
 Newman, John Henry, and periodicals 151–3;
 and university education, 64, 66–9
 Niven, Richard, 95
 Norwich, museum, 115
- O'Brien, William Smith, 13, 40, 45, 50
 O'Connell, Daniel, 3, 7;
 and exhibitions, 128, 135;
 and university education, 45, 48, 50, 56–7
 O'Connor, Denis, 25, 33
 O'Donovan, John, 58
 O'Toole, Joseph, 56, 58
 Olden, Robert, 34
On the Origin of Species, 141, 145, 152
 Ordnance Survey of Ireland, 34, 45–7, 61
 Oxford, University of, 52, 60, 67;
 museum, 103, 105
- Peel, Robert, 43, 46–8, 56, 62, 58, 82
 Penrose, Cooper, 16

- Playfair, Lyon, 77
 Plumptre, Anne, 18
 Pope Pius IX, 55, 132
 popularization, 26, 36, 162;
 and exhibitions, 101–2, 122, 126;
 and museums, 101–2;
 and periodicals, 132, 136, 158
 Portlock, Colonel, 34
 positivism, 154
 Power, Thomas, 26, 61
 Praeger, Robert Lloyd, 35, 161, 168
 Presbyterianism, attitudes to science, 163;
 and Belfast Academical Institution, 21,
 38, 80;
 and university education, 53, 56, 59, 62;
 and voluntary societies, 40;
 Professionalization, 166–8;
 and agricultural improvement, 72, 88,
 98–9, 100;
 Protestantism, attitudes to science, 133;
 and periodicals, 135, 150;
 Protestant Ascendancy, 9, 53, 161;
 and university education, 51–3, 56, 62,
 64;
 and voluntary societies, 166
 Quakers, and scientific societies, 24–6, 39
 Queen's College Belfast, 164
 Queen's College Belfast, 53, 71, 79–80, 94*t*,
 105;
 appointments in, 59;
 reason for location, 81;
 and agricultural improvement, 87–93;
 students in, 94–6, 98, 123;
 museum of, 104–17 *passim*,
 Queen's College Cork, 7, 27, 47, 56, 167;
 appointments in, 63–5, 68–9;
 and agricultural improvement, 93;
 and exhibitions, 120–1; 130;
 museum of, 104, 108–10, 111–17, 165;
 students in, 96–8;
 and voluntary societies, 24, 31–3, 36–7
 Queen's College Galway, 56, 164;
 and agricultural improvement, 93;
 students in, 96;
 and museum, 104, 108–18, 165
 Queen's Colleges, applicants for professor-
 ships in, 60–1;
 and British Association for the Advance-
 ment of Science, 166;
 and exhibitions, 126;
 and Irish scientific community, 141;
 museums in, 114*t*, 102–3, 106–8, 111,
 125, 129, 164;
 Parliamentary commission to investigate,
 8, 62–3, 71, 92–4, 96–8, 109, 166;
 and periodicals, 158–9; students of,
 93–6
*Railway Gazette, Mining and Commercial
 Journal*, 137
Rambler, 135
 Religious Tracts Society, 133
 Repeal of the Union, 3, 7, 166–7;
 and voluntary societies, 11, 45–50 *pas-
 sim*, 57;
 and exhibitions, 123;
 and periodicals, 134–5, 139
Repealer's Horn Book, 139
 Robinson, Thomas Romney, 64, 109, 111
 Rotunda Hospital, 128
 Royal Agricultural College, Cirencester,
 75–6
 Royal Belfast Academical Institution,
 see Belfast Academical Institution
 Royal College of Science 64, 167–8
 Royal Cork Institution, and scientific socie-
 ties, 13, 15–27, 19, 20, 30–4, 38;
 and university education, 44, 49–51;
 and agricultural improvement, 73;
 and exhibitions 117;
 museum of, 107–9, 113
 Royal Dublin Society, 3;
 and scientific societies, 18, 23, 35, 38, 40;
 and university education 44, 46, 49, 61,
 63;
 and agricultural improvement, 73, 78,
 89, 91;
 and periodicals, 137, 144, 155;
 and exhibitions, 119–23, 127;
 museum of, 103
 Royal Galway Institution, 38–40, 49, 164;
 museum of, 109
 Royal Horticultural Society of Ireland, 91
 Royal Institution of London, 15–16
 Royal Irish Academy, 167;

- and scientific societies, 35–6, 39–40;
 and university education 49;
 and periodicals 141, 144, 155
 Royal Navy, 118
 Royal Polytechnic Institute, 83
 Royal Society, London, 35
 Russell, Charles William, 147
 Russell, Lord John, 58
 Russell, Matthew, 147
 Ryall, John, 56–7

 Sainthill, Richard, 26, 35
 Scotland, 12–13, 116;
 and agricultural education, 76;
 and scientific societies, 39, 162
 Senior, Nassau, 108
 Shaw, George, 27
 Sheehan, Canon Patrick, 11
Shin Fain; Or Ourselves Alone, 128–9
 Shinkwin, Thomas, 33
 Sigerson, George, 64, 167, 169
 Skilling, Thomas, 88, 91–2
 Smyth, William, 125
 Speranza, 145
 Sproule, John, 125
 Steele, William, 61
 Stewart, Neil, 116
 Sullivan, William K., 162–3, 167, 169;
 and agricultural improvement, 77, 90;
 and exhibitions, 119, 124–5, 130;
 and periodicals, 134, 139–40, 143–4,
 146, 150–2, 155, 157;
 and voluntary societies, 32;
 and university education, 57, 65–70
 Syllabus of Errors, 132, 154, 168

 Thackray, Arnold, 5
 Thomson, Charles Wyville, 112, 116–17
 Trinity College Dublin, 165–8;
 and agricultural education, 87, 98;
 and engineering, 88;
 museum of, 132, 103, 105, 117;
 and scientific societies, 40;
 and university education, 43–4, 51–2,
 56, 61, 65, 67, 70
 Tyndall, John, 148–50, 156–7

 Ulster College Commission, 56, 81
 Ulster, 16;
 industrialization, 14, 83, 163;
 and museums, 106;
 natural history dealers, 115–16;
 scientific development, 163
 Unitarians, and Royal Belfast Academical
 Institution, 80;
 and scientific societies, 24–6, 39

 Varian, J. S., 25
 Vaughn, John S., 156

 Wales, and scientific societies, 39, 162
 Walsh, Francis, 25
 Warwick, John, 116
 Waterford, 13, 50, 169;
 and scientific societies, 38–9;
 Scientific and Literary Institution, 13, 39;
 and exhibitions, 121
 West, Tuffen, 115
 Whitelegge, W., 25
 Wilde, Lady, 146
 Wilde, Oscar, 147
 Wilde, William, 143, 146
 Windele, John, 23–6, 33, 35, 40
 Woodward, Benjamin, 105
 Wright, Joseph, 34–5, 40–1
 Wyse, Thomas, and scientific societies, 13;
 and university education, 39, 50–3, 56;
 and museums, 102

 X Club, 167

 Yeats, William Butler, 147
 Young Ireland, 7, 48, 138

 Zoological Society of London, 114–15